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(54) PRODUCTION OF NONIONIC DETERGENT GRAIN

(57) Abstract:

PURPOSE: To obtain the subject detergent grains excellent in flow characteristics and noncaking properties by mixing detergent raw materials containing a nonionic surfactant as a main base, stirring and mixing the resultant mixture in a specific stirring type mixer, granulating the mixture, then mixing the prepared granulated material with fine powder and coating the granulated material with the fine powder.

CONSTITUTION: The objective grains are obtained by mixing detergent raw materials composed of, e.g. 75-95 pts.wt. builder and 5-25 pts.wt. nonionic surfactant, stirring and mixing the resultant mixture in a stirring type mixer (having a stirring shaft equipped with stirring blades in the internal center and capable of forming a clearance between the stirring blades and a device wall in rotating the stirring blades), forming a sticking layer of the detergent raw materials on the wall of the mixer,

granulating the mixture while enhancing the bulk density, mixing 100 pts.wt prepared granulated material with 0.5-30 pts.wt. fine powder (preferably an aluminosilicate having 210 μm average particle diameter) and coating the surface of the granulated material with the fine powder. The bulk density of the grains is 0.6-1.2g/ml.

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